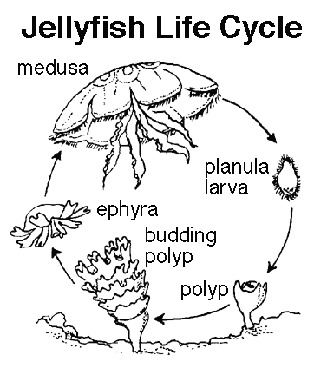
**Expert Group Member 3:**

**Asexual and Sexual Reproduction**

Asexual reproduction is where an organism reproduces offspring that are genetically identical to itself because there no exchange of genetic material. This means that an organism that reproduces from asexual reproduction, reproduces without a mate. Asexual reproduction occurs in many forms such as:

* Budding
* Gemmules (Internal Buds)
* Fragmentation
* Regeneration
* Parthenogenesis

An organism that uses asexual reproduction is the Jelly Fish.



Sexual reproduction happens when a female gamete (egg) and a male gamete (sperm) from the same organism fuses resulting in fertilisation of the egg. The egg will then develop into offspring which will have characteristics from both parents.

An organism that uses sexual reproduction is Cattle:

Cattle Lifecycle:

Adult Male and Female Mating Fertilisation of egg Juvenile Adult

The differences between asexual and sexual reproduction are:

Asexual Reproduction:

* Does not need a mate to reproduce
* Offspring is identical to parent

Sexual Reproduction:

* Needs a mate to reproduce
* Offspring are genetically different

Websites used to gather information:

* <http://www.users.on.net/~jamesmosby/starfish/lifecycle.html>
* <http://biology.about.com/od/genetics/ss/Asexual-Reproduction.htm>
* <http://www.google.com.au/imgres?hl=en&biw=1366&bih=667&tbm=isch&tbnid=dimUzXaamb0MwM:&imgrefurl=http://www.dnr.sc.gov/marine/pub/seascience/jellyfi.html&docid=XwyfYlhq-ZxgmM&imgurl=http://www.dnr.sc.gov/marine/pub/seascience/images/jflifec.gif&w=321&h=375&ei=G7j7T739DK2RiQeYmZX7Bg&zoom=1&iact=hc&vpx=586&vpy=296&dur=8679&hovh=243&hovw=208&tx=165&ty=151&sig=104395083405570413975&page=1&tbnh=147&tbnw=126&start=0&ndsp=18&ved=1t:429,r:8,s:0,i:95>
* <http://www.biology-online.org/dictionary/Asexual_reproduction>
* <http://biology.about.com/od/basicgenetics/a/aa062708a.htm>
* <http://dictionary.reference.com/browse/sexual+reproduction>
* <http://www.edinformatics.com/math_science/asexual_sexual_reproduction.htm>
* <http://www.biology-online.org/dictionary/Sexual_reproduction>